

5 FULL DUPLEX HEADSET WITH SEPARATE FUNCTION TRANSDUCERS
FOR NOISY ENVIRONMENTS

ABSTRACT

10 A headset includes two ear pieces: one acting as a microphone, and the other
as an earphone. Isolated from background noise and vibrations due to bone
conduction, the microphone ear piece converts voice sounds from the air column in
the external ear canal into electrical signals. The earphone converts electrical signals
from a telephony device into audio output in the other ear piece. As a result, the
headset configuration provides full duplex communication while isolating background
15 noise.